

Single channel water monitoring system

Controlled and reliable measurements are driven by Kuntze Krypton® systems. The measuring system includes all customer needs for disinfectant measurement: instrument, sensors, assembly and cables.

The water measurement process can be controlled at any time, from any place, on any device via Kuntze's Cloud Connect® service. All Kuntze products are Made in Germany.



a. Instrument Neon® pR



Applications









Waste Water Treatment

Pool & S

Technical data

Measuring range

pH-value -2.00.. +16.00 pH ORP -1500.. +1500 mV Input characteristics

Temperature measuring range -22°.. 284° F
Temperature compensation Nonlinear (pH)

Digital input 1 as controller stop by external contact option: 2nd as controller stop or flow

measurement for volume based dosing

Output characteristics

Alarm relay 1 potential-free NO contact, max. 250 V, 6 A, 550 VA (invertable)

Output signal Option: 2 x 0/4 .. 20 mA (scaleable, galvanically isolated)

Load max. 500 Ohm

Registration range Scaleable within the measuring range

Voltage output +/- 6 VDC for impedance converter
Storage media SD card up to 1 GB - Industry standard

Serial interface Option: RS 485 - modbus RTU

Baud rate 19200 bps Data format 8 bit

Power supply

Line voltage 85.. 265 V AC, +6/-10%, 50.. 60Hz option: 24 V DC

Power consumption 10 VA

Process conditions

Temperature Storage -4°..+149°F

Operation 0.. +50°C (32°.. 122°F)

Humidity max. 90% rH at 40°C (non-condensing)

Protection class Wall mounted IP 65

Panel mounted IP 54 (front), IP 30 (housing)

Controller

Control response Option: on/off controller (adjustable hysteresis) P/PI/ PID controller

(pulse-pause, pulse-frequency or continuous output)

servo motor control

Relay 2 relays, each with a potential-free NO contact, max. 250V, 6 A, 550 VA

Start delay 0.. 200 sec until controller active

Controller stop Digital input

Proportion to volume

Control mode Option: volume based by flow measurement
Flow measurement Impulse measurement NPN (by digital input 2)
Flow measurement Engine speed 0.030.. 9.999 I/Imp
Relay 1 Potential-free NO contact, max. 250V, 6 A, 550 VA

(pulse-pause, pulse-frequency)

Relay 2 Activating circulation pump

Design configuration

Material ABS

Dimensions 144 x 144 x156 mm

Weight 1.0 kg

Connection Cable inlet: 2x M16, 2x M12 + optional: 2x M12 and 1x M25

plug-in terminal: rigid /flexible 0.2-2.5 mm² / 0.2-2.5 mm² measurement rigid /flexible 0.2-1 mm² / 0.2-1.5 mm

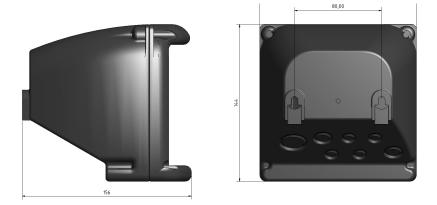
Certificates and approvals

CE-Symbol The product meets the requirements of the harmonized European standards

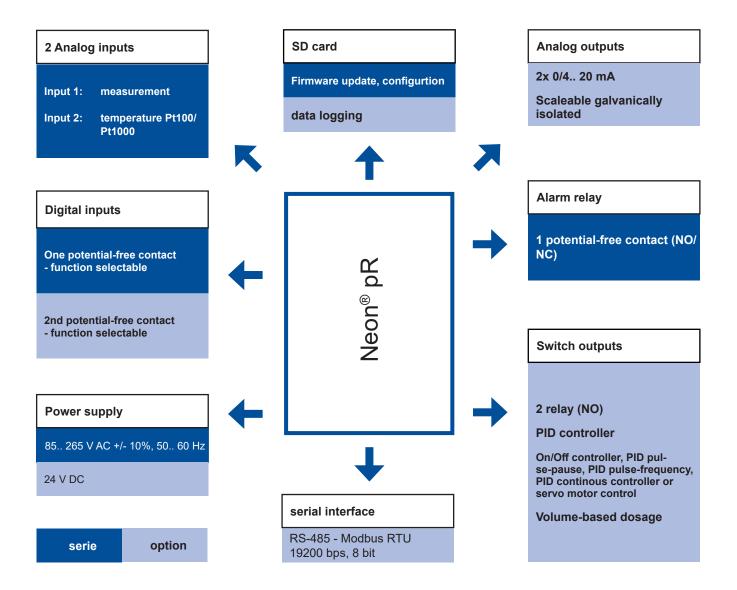
and complies with the legal requirements of the EC directives.

EMC EN 61000 6-1 (3) EN 61000 6-2 (4) EN 61326-1

Mechanical drawing



Interface diagram



b. Assembly Argon® Flow

Argon® Flow is a modular assembly which excels ba its efficient design. It is assembled and tested. The assembly of two chamber: one chamber is equipped with a float and the second is meant for a sensor in 12 mm sensor design.



Technical data

Process conditions

Max. pressure max. 87 psi (at 68° F)

Temperature 32°.. 122°F

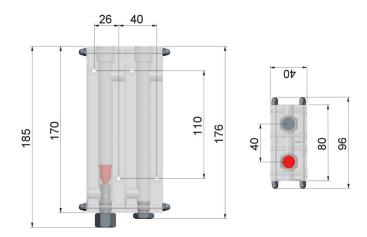
Mechanical construction

Material body: PMMA connections: PVC

Dimensions 170 x 80 x 40 mm

Installation in-/outlet: 1/4" female thread; sample cock: 1/4" female thread

Mechanical drawing



c. Sensor Zirkon® pH Universal



Applications









Disinfection

Drinking Water Food & Beverage Cooling Water

Technical data

Measuring parameter

pH-value 0.. 14 pH

Ambient conditions

Min. conductivity > 150 μ S/cm Temperature 23.. 158 °F

Pressure plug PG < 29 psi at 68° F

resin shaft < 15 psi at 68° F PG 13.5 loose < 15 psi at 68° F

Mechanical construction

Junction Zircon
Shaft material Glass, resin

Mechanical Construction 120 mm, 160 mm, 225 mm

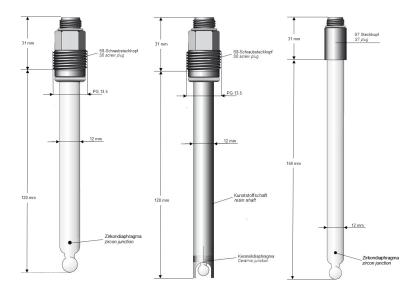
Electrode material AH glass ball
Reference system Ag/AgCl/Tepox gel

Internal buffer pH 7

Process connection S8 plug (swivel PG 13.5), S7 plug, Variopin (swivel PG 13.5), fixed cable

Electrical connection 2 or 6 pole connection Temperature sensor none, Pt100, Pt1000

Measuring drawing



Versions

Artikelnummer	Typ/Ausführung	Beschreibung
S24131110K	201012100	pH sensor: 1 mm zircon junction, Tepox gel, S8 plug (swivel PG 13,5), 120 mm
S24131100K	201012320	pH sensor: 1 mm zircon junction, Tepox gel, S7 plug, 160 mm
S24132650K	201012103	pH sensor: zircon junction, Tepox gel, S8 plug (swivel PG 13,5), 120 mm resin shaft
S24132111K	201112400	pH sensor: Pt 100, zircon junction, Tepox gel, Variopin plug (swivel PG 13,5), 120 mm

d. Accessory sensor Pt-55-W

Pt-55-W is a sensor for measuring temperatur.



Process conditions

Max. pressure max. 87 psi at 68° F

Mechanical construction

Shaft material resin

Electrical connection M12 plug (swivel PG 13.5)